

**Request to Archive
With The National Centers for Environmental Information
For NCEP/NCAR Reanalysis (Reanalysis-I)
Provided by NCEP**

2015-04-20

This information will be used by NCEI to conduct an appraisal and make a decision on the request.

1. Who is the primary point of contact for this request?

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2. Name the organization or group responsible for creating the dataset.

NCEP

3. Provide an overview summarizing the scope of data you want to archive. Describe the outputs, data variables, including their measurement resolution and coverage.

The NCEP/NCAR Reanalysis Project is a joint project between NCEP and NCAR. The goal of this joint effort is to produce an atmospheric analyses using historical data (1948 onwards) and as well to produce analyses of the current atmospheric state (Climate Data Assimilation System, CDAS). Data files are GRIB1 in format and spatial coverage is global.

4. What is the time period covered by the dataset? (YYYY-MM-DD, YYYY-MM or YYYY)

From 1948-01-01
Ongoing as continuous updates to the data record

5. Edition or version number(s) of the dataset:

N/A

6. Approximate date when the dataset was or will be released to the public:

2015-04-01

7. Who are the expected users of the archived data? How will the archived data be used?

See #3.

8. Has the dataset undergone user evaluation and/or an independent review process? Did NCEI participate in design reviews?

Several research papers have been written on this dataset.

9. Describe the dataset's relationship to other archived datasets, such as earlier versions or related source data. If this is a new version, how does it improve upon the previous version(s)?

These reanalysis data are similar to other reanalyses data: Reanalysis-II, CFS, and NARR.

10. List the input datasets and ancillary information used to produce the data.

Please see the R1 homepage for more information: <http://www.cpc.ncep.noaa.gov/products/wesley/reanalysis.html>

11. List web pages and other links that provide information on the data.

R1 Homepage: <http://www.cpc.ncep.noaa.gov/products/wesley/reanalysis.html>

12. List the kinds of documents, metadata and code that are available for archiving. For example, data format specifications, user guides, algorithm documentation, metadata compliant with a standard such as ISO 19115, source code, platform/instrument metadata, data/process flow diagrams, etc.

1. - Gridded model data output
- Miscellaneous documents: describing data and variables, PowerPoint presentations, research papers... (see #11)

13. Indicate the data file format(s).

1. GRIB 1

14. Are the data files compressed?

GRIB

15. Provide details on how the files are named and how they are organized (e.g., file_name_pattern_YYYYMM.tar in monthly aggregations).

NCEP: <ftp://ftp.cpc.ncep.noaa.gov/wd51we/reanalysis-1/>

16. Explain how to access sample data files and/or a file listing for previewing. If it is not available now, when will it be available?

NCEP: <ftp://ftp.cpc.ncep.noaa.gov/wd51we/reanalysis-1/>

17. What is the total data volume to be submitted?

Historic Data: all historic data or data submitted as a completed collection.

Total Data Volume: 1.00TB

Number of Data Files: 558938

Continuous Data: data volume rate for a continuous data production.

Total Data Volume Rate: 1.3GB per Month

Data File Frequency: 716 per Month

Data Production Start: 2015-04-01

18. Are later updates, revisions or replacement files anticipated? If so, explain the conditions for submitting these additional data to the archive.

No additional updates, revisions or replacement data are anticipated.

19. Describe the server that will connect to the ingest server at NCEI for submitting the data.

Physical Location: NCEP Central Operations (NCO) Facility

System Name: NCEP

System Owner: DOC/NOAA/NWS/NCEP/EMC > Environmental Modeling Center,
National Centers for Environmental Prediction, National Weather
Service, NOAA, U.S. Department of Commerce

Additional Information: Data might be able to be pushed from NCO or possibly from the NCEP Operational NOMADS server

20. What are the possible methods for submitting the data to NCEI? Select all that apply.

1. FTP PUSH
2. SFTP PUSH

21. Identify how you would like NCEI to distribute the data. Web access support depends on the resources available for the dataset.

1. Direct download links
2. Advanced web services (e.g., THREDDS Catalog Service)

22. Will there be any distribution, usage, or other restrictions that apply to the data in the archive?

No known constraints apply to the data.

23. Discuss the rationale for archiving the dataset and the anticipated benefits. Mention any risks associated with not archiving the dataset at NCEI.

NCEP/NCAR Reanalysis (Reanalysis-I) data are one of the longest-ongoing reanalyses in production. They are often used alongside NCEP/DOE Global Reanalysis (Reanalysis-II) data.

The rationale for archiving this dataset at NCEI-NC is that it will provide a complete dataset for climate researchers to obtain from NCEI. With NCEI as the world's largest climate data archive providing climate information for users world-wide, it would be within its interest to provide a complete Reanalysis-I dataset.

24. Are the data archived at another facility or are there plans to do so? Please explain.

These data are located at other facilities which may or may not qualify as an archive as NCEI.

25. Is there an existing agreement or requirement driving this request to archive? Have you already contacted someone at NCEI?

No

26. Do you have a data management plan for your data?

No

27. Have funds been allocated to archive the data at NCEI?

No

28. Identify the affiliated research project, its sponsor, and any project/grant ID as applicable.

N/A

29. Is there a desired deadline for NCEI to archive and provide access to the data?

No deadlines for archive or access.

30. Add any other pertinent information for this request.

Files in #17 are individual files, not tar packages